

## New Californian Microlepidoptera

AUGUST BUSCK

U. S. BUREAU OF ENTOMOLOGY, WASHINGTON, D. C.

The species of Microlepidoptera, described in the following, were received for determination from Mr. W. S. Wright, San Diego, California, together with some fifty other species, which I have recognized as already described.

If a few more equally valuable collections could be obtained from California this coming season, the writer would be pleased to fulfil his promise to Dr. C. F. Baker, to give a comprehensive paper on the known California Microlepidoptera for this Journal. I shall be glad to hear from other collectors of these insects in California.

### *Coleophora quadristrigella* new species

Labial palpi long, porrected, smooth; second joint hardly thickened; white, shaded with light brown externally. Antennae white, somewhat thickened with scales toward the base; basal joint yellow, somewhat enlarged, but without projecting flap of scales. Face, head and thorax light yellow with the cheeks, patagium and posterior tip of thorax white. Forewings with silvery white ground color; from base to apex along the upper edge of the cell and covering vein 7 runs a broad longitudinal streak of light golden yellow, which at basal fourth gives off a narrower longitudinal branch of the same color, which terminates on the middle of the termen; below the fold from base to tornus runs a third longitudinal yellow streak; these yellow streaks leave the white ground color exposed only as four longitudinal streaks, one along the costal edge, one along the dorsal edge, one on the fold and one from basal third of the cell to close below apex. Cilia whitish fuscous. Hind wings light fuscous with the cilia a shade darker. Abdomen light fuscous with golden lateral edges. Legs whitish hairs on posterior tibiae golden.

Alar expanse: 18-20 mm.

*Habitat*—San Diego, California, June, July. W. S. Wright, coll.

U. S. N. M. Type No. 15,607.

*Coleophora entoloma* new species

Very close to *C. quadristrigella*, but smaller and with the yellow color somewhat darker and occupying the larger part of the wing, leaving the white color as three thin longitudinal streaks, one along the costal edge, one through the middle of the wing to apex and one on the fold; the fourth white streak found in *quadristrigella* on the dorsal margin is absent in the present species, the subplical yellow longitudinal streak being broader and includes the dorsal edge. No other colorational differences.

Alar expanse: 15-18 mm.

*Habitat*—San Diego, California, May, June. W. S. Wright, coll.

U. S. N. M. Type No. 15,608.

*Galechia coticola* new species

Labial palpi light ochreous with extreme base dark brown and with a few scattered brown scales on terminal joint; second joint with well developed compressed and furrowed tuft. Antennæ black. Face, head and thorax light golden yellow. Patagina purplish black. Forewings with costal half blackish brown with a purple tint; dorsal half golden yellow; the dividing line between the two colors is nearly straight from base to the middle of termen except for a large triangular process of the yellow color into the dark color on the middle of the wing; in the dark costal area lies a short, oblong, yellow dash below the costal edge at basal third and a larger triangular costal spot at apical fourth; cilia fuscous. Hindwings light fuscous. Abdomen light yellow dusted with dark brown. Legs yellowish with broad dark brown annulations on tibiæ and tarsi, except on the hind tarsi, which are all yellow.

Alar expanse: 16-17 mm.

*Habitat*—La Puerta, California, July. Wright & Field, coll.  
U. S. N. M. Type No. 15,609.

A well marked species nearest in coloration to *Gelechia kin-kaidella* Busek, but easily distinguished by the pattern, which comes nearer to that of the much smaller *Gelechia paraplutella* Busek.

*Gelechia scabrella* new species

Labial palpi with short indistinctly divided brush on the underside, blackish brown exteriorly, gray on the inner side; terminal joint shorter than second somewhat thickened with scales, blackish brown with an indistinct pale annulation at base. Antennæ finely pubescent, dark purplish brown each joint terminating in a circle of paler somewhat raised scales. Face, head and thorax dark purplish brown finely irrorated with white, the extreme tip of each scale being white; posterior tip of thorax deep velvety, unmixed brown with a strong purple sheen. Forewings of the same irrorated brown color as the thorax except for a large triangular dorsal patch near the base, which has the same color as the posterior tip of thorax; this reaches with one corner to the costal edge and is sharply edged posteriorly by a thin oblique white line; on the middle of the wing is a similarly unicolorated, but more diffused larger patch, edged posteriorly by a thin, transverse, slightly concave, white line across the wing at apical third; both of these dark brown areas contain small tufts of raised scales in two longitudinal rows; the groundcolor with lighter brown white-tipped scales thus cover the extreme base, an oblique fascia beyond the first white line the dorsal and costal edges and the entire tip of the wing beyond the thin white fascia; cilia concolorous. Hindwings broader than the forewings, light shiny fuscous. Abdomen light fuscous. Legs blackish fuscous with indistinct narrow annulations at the joints.

Alar expanse: 17-20 mm.

*Habitat*—San Diego, California, June, July. W. S. Wright, coll.

U. S. N. M. Type No. 15,610.

This is the western representative of our eastern *G. walsing-*

*hami* Dietz, to which it comes quite close, though much larger and deeper in color.

The species has a striking superficial resemblance to the larger typical species of the genus *Gnorimoschema*.

*Gelechia bigella* new species

Labial palpi with stubby, indistinctly furrowed brush on second joint, nearly even throughout its length light fuscous mottled with dark brown. Face light fuscous. Head and thorax dark fuscous. Forewings dark velvety fuscous with two velvety black round dots, one on the middle of the fold and one obliquely above it on the cell, both slightly edged with rust-brown scales; at the end of the cell is a small rust-brown spot containing a few single black scales, a small blackish costal spot at apical third and an illdefined marginal row of black around the apical and terminal edges; cilia fuscous sprinkled with single black scales. Hindwing dark fuscous; anal cilia yellowish fuscous; the males have on the underside of the hindwing a row of long raised scales on vein 8. Abdomen dark fuscous, with the upper side of the basal joints tinged with golden yellow. Legs blackish fuscous with narrow yellowish tarsal annulations.

Alar expanse: 20-21 mm.

*Habitat*—San Diego, California, February. W. S. Wright, coll.

U. S. N. M. Type No. 15,611.

Nearest to our Eastern *Gelechia binimaculella* Chambers.

*Ethmia mediella* new species

Labial palpi long, recurved, reaching beyond vertex; white sprinkled with black scales; outer side of second joint nearly all black. Antennæ leadcolored with narrow white annulations; first joint white on the underside. Face white. Head white with a central black spot. Thorax white with four black dots, two on each side. Patagina white with two black basal dots. Forewings white suffused with soft gray which is darker just above the fold below which there is a rather sharply edged pure white longitudinal area; basal part of costal edge dark lead

colored; on the fold is a longitudinal row of three deep black lines and at the end of the cell is a pure white dot edged by short black dashes; around apical and terminal edge is a series of short black streaks. Cilia white. Hindwings dark gray with the anal area yellow and cilia yellow. Abdomen light golden yellow except the upper side of the first joint, which is gray. Legs white with well marked black tarsal annulations and with posterior tibiae yellow.

Alar expanse: 22-26 mm.

*Habitat*—San Diego, California, June, July. W. S. Wright, coll.

U. S. N. M. Type No. 15,612.

Closely related and very similar in pattern to *Ethmia arctostaphylella* Walsingham and *Ethmia obscurella* Beutenmuller, but much lighter than these species in color.

#### *Semioscopis accertella* new species

Labial palpi black with the tips of both joints and a sprinkling on second joint white. Head and thorax brownish fuscous. Forewings with the groundcolor bluish-white but so heavily overlaid with dark brownish fuscous that the white only appears in irregular longitudinal thin lines; the brown faintly outlines the venation and is mixed with black scales, also arranged in illdefined and interrupted longitudinal lines; on the middle of the cell is a broader white longitudinal line, edged above and below and broken in the middle by short deep black lines; on the middle of the fold is a short black longitudinal streak. The effect to the unaided eye is a pepper and salt coloration with a narrow white central streak on the cell. Hindwing dark fuscous with whitish area. Abdomen yellowish fuscous. Legs black with yellowish annulations on tibiae and tarsi.

Alar expanse: 16-19 mm.

*Habitat*—San Diego, California, November. W. S. Wright, coll.

U. S. N. M. Type No. 15,613.

Nearest in wing form and pattern to *Semioscopis megami-crella* Dyar, but smaller, much darker and suffused in its marking and without the well marked terminal row of black dots.

*Hypoplesia dietziella* new species

Tongue and maxillary palpi obsolete. Labial palpi rather long curved ascending; second joint with well developed brush on the underside and with several long black bristles along the upper edge; terminal joint shorter than second, bluntly pointed; blackish fuscous with extreme tip of the third joint yellowish. Antennæ nearly as long as the forewings, stout, with short whorls of raised scales, less so in the females; basal joint with pecten yellowish fuscous, lighter toward the tip. Face and head rough with long, erect dark fuscous hair scales. Thorax dark fuscous. Patagina tipped with yellow. Forewings dark fuscous mottled with black and yellow in indistinct and transverse striation; the black scales are slightly raised and most prominent; along the costal edge is a series of small black dots and at the end of the cell is a larger ill-defined black spot; around the entire edge from the middle of costa to tornus is a series of small yellowish dashes also present in the otherwise dark fuscous cilia. Hindwings shining dark fuscous. Abdomen dark fuscous. Legs black with yellowish annulations. Hindlegs rather long with the tibiæ hairy.

Alar expanse: 16-20 mm.

*Habitat*—San Diego, California, June, July. W. S. Wright, coll.

U. S. N. M. Type No. 15,614.

I take pleasure in associating the name of my friend and colleague, Dr. Wm. Dietz, with this interesting species, the second one known in the genus originally characterized by him under the preoccupied name, *Paraplesia*. (Trans. Am. Ent. Soc. XXXI, p. 12, 1905)=*Hypoplesia* (Busek, Proc. U. S. Nat. Mus. XXX, p. 735, 1906.)

The original description is rather scanty and partly incorrect; the antennæ are not bipectenate, but are thickened with whorls of raised scales. Their length and the absence of tongue

and maxillary palpi are the significant characters. The venation is simple, all the veins separate (not 7 and 8 out of 9 as stated by Dietz) in both wings; vein 7 to costa in the forewing. The genus is closely allied to *Hapsifera* Zeller and *Euplacamus* Latrielle, both of which, however, have veins 7 and 8 stalked in the forewing.